17th RA bill

013-22-00000 2.

D3

M. A. R. 57 (Rule 116) No. E

Measurement Book

689821

Serial No. .....

Name of work .... Annual maintenance of Street lights package D-3 in Marathahalli ward no-13. From 01.01.2024 To 31.03.2024

Name of Contractor of nature of Agency M/S. Sutthanullah Khan (UNITED Engineers)

Date of commencement of work.. EE/Elec/D3/TEND/SAG/23/2022-23 } Dt: 20.03.2023
EE/Elec/D3/TEND/SAG/29/2022-23

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
1.	Operation & Maintenance of Street lighting System including replacement of damaged/failed/fused out components of the lamps, Tubes, Chokes, Igniters, Capacitors, Switches, wires, Holders, starters, and Switching ON/OFF of Street lights at Specified timings & pole numbering, preparing ward wise Street wise data bank furnishing maintenance reports every day etc, complete so as to ensure efficient burning of Street lights as detailed in tender documents for various type of Street lighting systems as detailed below 3/000 Fluorescent tube light Street lighting System.						
-	ng of Street lights at Specified timings & pole numbering & Preparing ward wise Street wise data bank furnishing maintenance reports, every day etc, complete so as to ensure efficient burning of Street lights as detailed in tender documents for various type of Street lighting systems as detailed below 3/000 Fluorescent tube light Street lighting System.						

Assistant Executive Engineer
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

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MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		9 NOS	X Rs. 55-88	X 3months	=	1500-41	
2.	Operation & Maintenance of Street lighting system including replacement of damaged/failed/fused out components like lamps, Tubes, chokes, Ignitors, Capacitors, Switches, and Holders, Starters & Switching ON/OFF of Street lights at Specified timing and pole numbering, Preparing ward wise Street wise data bank furnishing maintenance reports, everyday etc, Complete so as to ensure efficient burning of Street lights detailed in tender documents for various type of Street lighting Systems as detailed below. 125w HPMV Parts lighting System.						
		0 NOS	X Rs. 60-88	X 3months	=	0.00	
3.	Operation & Maintenance of Street lighting system including replacement of damaged/failed/fused out components like lamps, Tubes, chokes, Ignitors, capacitors, switches, wires, Holders, Starters & Switching ON/OFF of Street lights at Specified timings, pole numbering						

Assistant Engineer (Ele)

Yelahanagara Palike

Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

M. A. R. 57 (Rule 116) No. E
Measurement Book

639822

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Preparing ward wise, Street wise data bank furnishing maintenance reports, everyday etc, complete so as to ensure efficient burning of Street lights detailed in tender documents for various Type of Street lighting Systems as detailed below poles with 250 w HPSV [illegible]						
	968 NOS X Rs. 84.17 X 3months	=				24,429.68	
4.	Operation & Maintenance of Street lighting System including replacement of damaged/failed/fused out components like lamps, Tubes, chokes, ignitors, Capacitors, Switches, wires, Holders, Starters and Switching ON/OFF of Street lights at specified timing & pole numbering, Preparing ward wise, Street wise data bank furnishing maintenance reports, everyday etc, complete so as to ensure						

EE (Ele)
DZ

Assistant Engineer (Ele)

Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	efficient burning of Street light detailed in tender documents for various type of Street lighting Systems as detailed below 400 watts HPSV Street light High mast lighting System						
		48 NO'S	X	Rs.92.50	X 3 months	=	13320.00
5.	Operation & Maintenance of LED Street lighting Sys including replacement of damaged/failed/freeed/ components like LED drivers, MCPCB, Surge protective device, Sensors, wires, Holders, Starter Observing weather proofing technic confirming to IP 65 Standards and Switching ON/Off of Street lights at Specified timing & pole numbering, Preparing ward wise, Street wise Street light data bank, furnishing maintenance reports every day etc, compute So as to ensure efficient burning of Street lights detailed in tender documents for 40 watt to 65 watt LED Farm/ street lighting System.						
		470 NO'S	X Rs. 70.88	X 3 months	=	101782.71	

Assistant Engineer (Ele)
Bruhath Bengaluru Mahanagara Palike

ASST. EXECUTIVE ENGINEER (Ele)

M. A. R. 57 (Rule 116) No. E
Measurement Book

689823

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
6.	Operations & Maintenance of LED Street lighting System including replacement of damaged/failed/freed/ components like LED drivers, MCPCB, Surge protective device, Sensors, wires, Holders, Starter Observing weather proof technic confirming to IP 65 Standards and Switching ON/Off of Street lights at Specified timing & pole numbering, Preparing ward wise, Street wise Street light data bank, furnishing maintenance reports every day etc, compute So as to ensure efficient burning of Street lights detailed in tender documents for 40 watt to 65 w LED Street light lighting System.						
		235 NO'S	X Rs.95	X 3 months	=	66975.00	

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Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	7. Operation & maintenance of LED Street lighting system including replacement of damaged/failed/fused part components like LED driver, MCCB, Surge protective device, Switches, wires, holders, Sensors, Observing Healthy Prevailing technic Conforming to IP 65 Standards and Regulating On/Off of Street lights at Specified timing and pole numbering, Preparing ward wise, Street wise Street light data book, Updating maintenance records, Energy etc, Complete details to ensure efficient working of Street lights, Recording to temper documents for new LED Street light						
	8. Operation & Maintenance of LED Street lighting System including replacement of damaged/failed/fused part components like LED driver, MCCB, Surge protective device, Switches, wires, holders, Sensors, Observing healthy Prevailing technic Conforming to IP 65 Standards &						

39105 x 112.5 Rs x 3 months = 13162.50

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Bruhat Bangalore Mahanagara Palike

M. A. R. 57 (Rule 116) No. E
Measurement Book

Serial No. .....

689824

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Regulating On/Off of Street lights at Specified timing and pole numbering, Preparing ward wise, Street wise Street light data book, Updating maintenance records, Energy etc, Complete details to ensure efficient working of Street lights, Recording to temper documents for 10/120 watts LED Street light signaling Systems.					= 00	
	9. Operation & Maintenance of LED Street lighting System including replacement of damaged/failed/fused part components like LED driver, MCCB, Surge protective device, Switches, wires, holders, Sensors, Observing Healthy Prevailing technic conforming to IP 65 Standard and Regulating On/Off						

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Bruhat Bangalore Mahanagara Palike

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	of Street lights at Specified timing and pole numbering Preparing Wards wise, Street wise Street light data bank furnishing maintenance Reports, every day etc, Complete So as to ensure efficient working of Street light data - led to tender documents for 150/180 watt LED Street light / high mast lighting System.					=	00.
10.	Supply and installation / fixing / provision of out - door type Polycarbonate Modular panel Enclosure with transparent polycarbonate lid, Shock proof, IP65 (water proof), dust proof, water proof corrosion proof having internally embedded gasket on both lid & flap Suitable to fix Single phase / three phase energy meter on Suitable base plate & having a provision for fuse / MCB cutout with Suitable transparent hinged flap opening for operating MCB along with						

Assistant Engineer (Ele)
Bruhath Bengaluru Mahanagara Palike

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Bruhath Bengalore Mahanagara Palike

M. A. R. 57 (Rule 116) **No. E**
Measurement Book

Serial No. 689825
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	complete tamper proof 300mm X 450mm X 214mm	Sealing facility					
		4 NO'S X RS. 5120				=	20480.00
11.	Supply & fixing of 4 pole power Contactor with NO/NC contacts on existing wood / panel board using necessary bolts, nuts, washers and wiring etc, complete with AC-3 Rating & as per IS 13947 100 to 125 Amps.						
		13 NO'S X RS. 7100				=	92300.00
18.	Supplying & fixing MCB on existing MCB distribution boards using necessary fixing materials & 'C' type Curve, indicator ON/OFF, energy saving						

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Bruhath Bengaluru Mahanagara Palike

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Bruhath Bengalore Mahanagara Palike

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Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	with Short Circuit breaking Capacity of 10kA as per IS and 'C' type curve, Indicator ON/OFF, energy cross-3 with short Circuit breaking Capacity of 10kA and complete wiring as required confirming to IEC 60898. 50-63 Amps SP.	14 NOS X RS. 720				=	10080.00
13.	Supplying & fixing Microprocessor based Astronomical timer Switch with using necessary bolts, nuts & washers.	14 NOS X RS. 4000				=	56000.00
14.	Wiring for lighting / power circuit using one of FRLS PVC insulated 1100V grade, stranded copper wire with low conductor resistance single core in Open or concealed system of wiring with specified IS 694: confirming to latest amendment 6 Sqmm.	10 NO'S X RS. 65				=	650.00

Assistant Engineer (Ele)
Bangalore Mahanagara Palike

ASST. EXECUTIVE ENGINEER (Ele)

M. A. R. 57 (Rule 116) No. E
Measurement Book

689826

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
15.	Supplying tinned Copper lugs & Crimping & etching to terminal point for size of the following Sqmm.	90 NO'S X RS.				=	680.00
	① 12·1· CIST deduct)					Total	44177.30
	② 18·1· CIST add						⊕ 32901.58
							389230.02
							⊕ 69552.48
							459118.50
	③ sub amount on item 10 to 15						150100.00
	④ 18·1· CIST on item 10 to 15						32425.20
	⑤ Fine imposed for ~~Sanction~~						676683.70
	⑥ 2·1· deducted released Scrap item						16262.36
						Grand total	660421.34

ASST. EXECUTIVE ENGINEER (Ele)
Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

ASST. EXECUTIVE ENGINEER (Ele)
Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
						Total	660421.34

Certificate

① the above said monthly maintenance work has been carried out satisfactorily.

② the amount claimed in this bill has not been claimed in any of the previous bill.

Assistant Engineer (Ele)
Bruhath Bengaluru Mahanagara Palike
Dasarahalli Zone, Bengaluru

EXECUTIVE ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike

Audited and admitted for Rs. 670684/-

Passed by Cheque for Rs. 633346/-

(Six lakh Thirty three thousand three hundred and forty Six Rupees only.)

by adjustment Rs. 37338/-

Accounts Superintendent

Exe. Engineer (Ele)

B.B.M.P. Dasarahalli Division

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